

Fig. 5. The logical structure of multi-class Classifier designed with multi-stage two-class classifiers

Note: (i) Each classifier is a MACA having the states of one subset of attractor basins belonging to one class while that of the other subset covers the elements of the second class.
(ii) The PEF (Pseudo Exhaustive Field) field of attractor is used as the address to access 1 bit Index Memory (36 in Fig 1(b)) that stores 1 bit (0 or 1) class information of two-class classification.

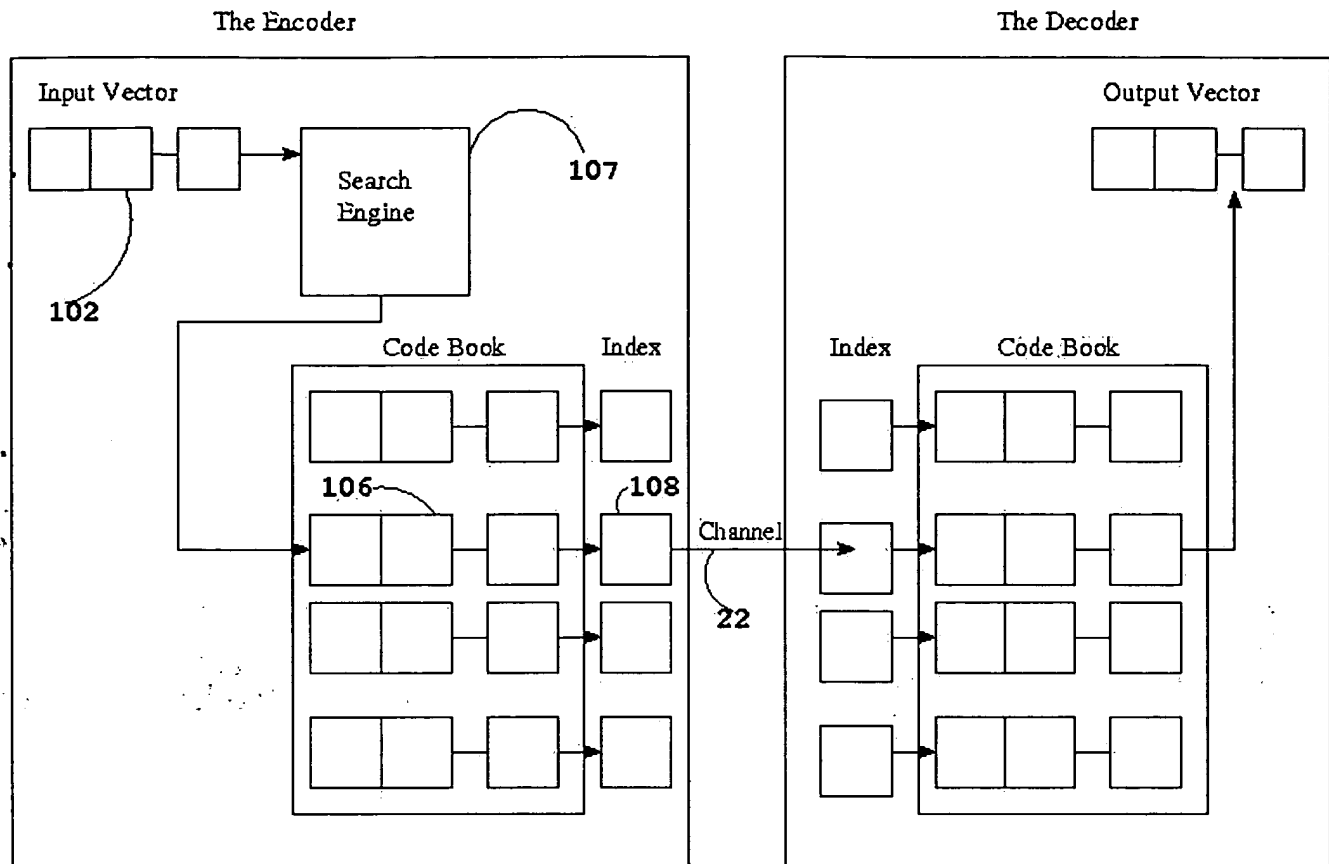


Fig. 6. Encoder and Decoder

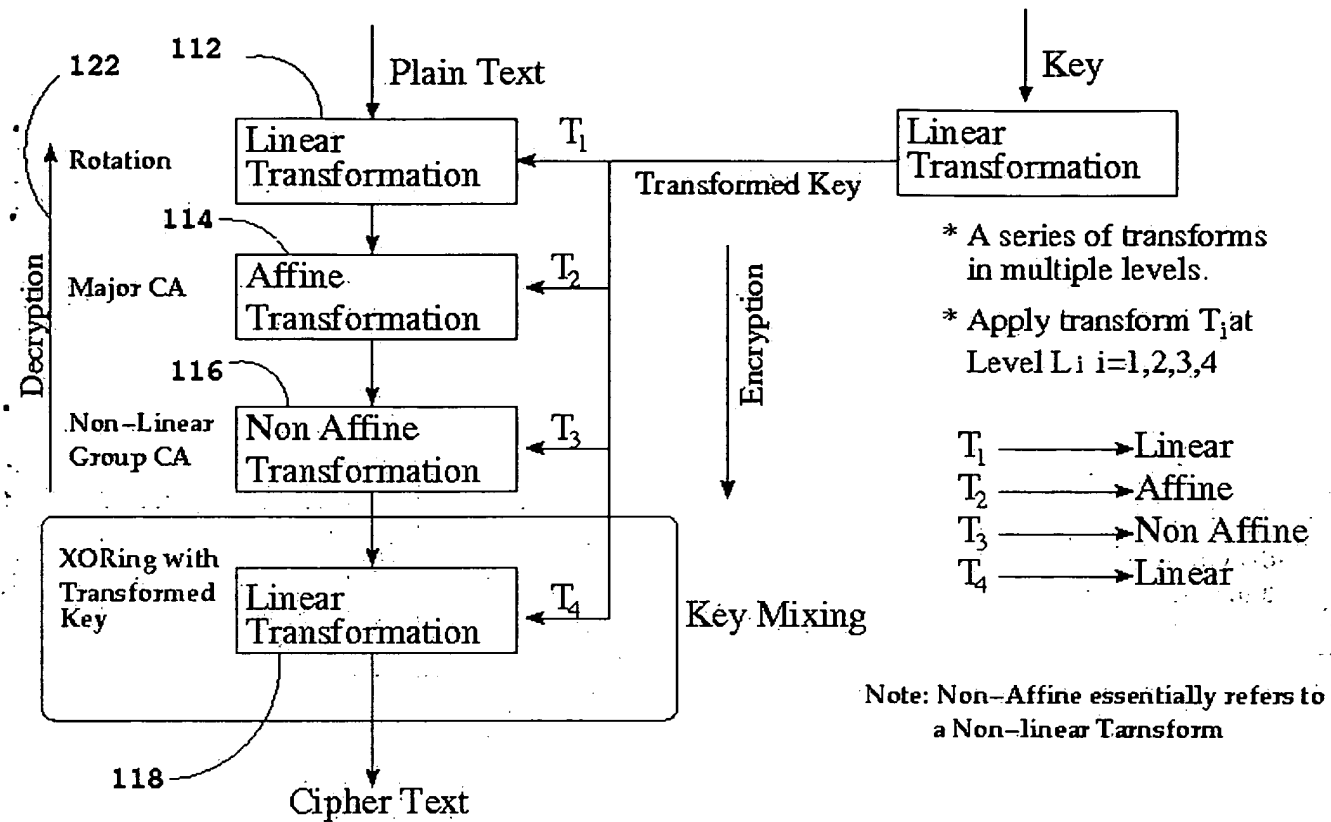


Fig. 7. Block Diagram of Encryption Scheme integrated in the Encompression Alogorithm